miRNA	MirBase #	miRNA Sequence(s)	RT-PCR Primer sequenc(s)	sCD40L vs Control	TNF-α vs Control
let-7-family	MIMAT0000062, MIMAT0000064, MIMAT0000065, MIMAT0000067	ugagguaguagguuguauaguu, ugagguaguagguuguaugguu, agagguaguagguugcauagu, ugagguaguagauuguauaguu	tgaggtagtaggttgtatagtt, tgaggtagtaggttgtatggtt, agaggtagtaggttgcatagt, tgaggtagtagattgtatagtt	0.2031	0.0884
miR-7	MIMAT0000252	uggaagacuagugauuuuguug	tggaagactagtgattttgttg	0.7371	0.9727
miR-92	MIMAT0000092	uauugcacuugucccggccug	tattgcacttgtcccggcctg	0.7022	0.8645
miR-93	MIMAT0000093	aaagugcuguucgugcagguag	aaagtgctgttcgtgcaggtag	0.8766	1.0070
miR-9-1	MIMAT0000441	ucuuugguuaucuagcuguauga	tctttggttatctagctgtatga	1.2058	1.0497
miR-101-1	MIMAT0000099	uacaguacugugauaacugaag	tacagtactgtgataactgaag	1.4340	1.1647
miR-103	MIMAT0000101	agcagcauuguacagggcuauga	agcagcattgtacagggctatga	1.4044	1.6133
miR-106a	MIMAT0000103	aaaagugcuuacagugcagguagc	aaaagtgcttacagtgcaggtagc	1.0792	1.2397
miR-106b	MIMAT0000680	uaaagugcugacagugcagau	taaagtgctgacagtgcagat	1.2142	1.0570
miR-107	MIMAT0000104	agcagcauuguacagggcuauca	agcagcattgtacagggctatca	1.2570	1.2570
miR-10b	MIMAT0000254	uacccuguagaaccgaauuugu	taccctgtagaaccgaatttgt	1.0718	1.0718
miR-1-1	MIMAT0000416	uggaauguaaagaaguaugua	tggaatgtaaagaagtatgta	0.5176	0.2774
miR-122a	MIMAT0000421	uggagugugacaaugguguuugu	tggagtgtgacaatggtgtttgt	0.4830	0.4204
miR-125a	MIMAT0000443	ucccugagacccuuuaaccugug	tccctgagacccttaacctgtg	1.0353	1.1892
miR-125b	MIMAT0000423	ucccugagacccuaacuuguga	tccctgagaccctaacttgtga	0.9013	1.0353
miR-126	MIMAT0000444	cauuauuacuuuugguacgcg	cattattacttttggtacgcg	0.9794	1.1251
miR-128b	MIMAT0000676	ucacagugaaccggucucuuuc	tcacagtgaaccggtctctttc	0.0202	0.0071
miR-132	MIMAT0000426	uaacagucuacagccauggucg	taacagtctacagccatggtcg	0.8011	0.8011
miR-133a	MIMAT0000427	uuggucccccuucaaccagcugu	ttggtcccccttcaaccagctgt	0.3121	0.2535
miR-134	MIMAT0000447	ugugacuggugaccagaggg	tgtgactggttgaccagaggg	0.5704	0.8066
miR-135b	MIMAT0000758	uauggcuuuucauuccuaugug	tatggcttttcattcctatgtg	0.2285	0.2132
miR-136	MIMAT0000448	acuccauuuguuuugaugaugga	actccatttgttttgatgatgga	0.8467	0.7371
miR-137	MIMAT0000429	uauugcuuaagaauacgcguag	tattgcttaagaatacgcgtag	0.9862	0.8586
miR-140	MIMAT0000431	agugguuuuacccuaugguag	agtggttttaccctatggtag	0.4061	0.2679
miR-141	MIMAT0000432	uaacacugucugguaaagaugg	taacactgtctggtaaagatgg	0.9659	0.9013
miR-142-3p	MIMAT0000434	uguaguguuuccuacuuuaugga	tgtagtgtttcctactttatgga	0.1560	0.1456
miR-143	MIMAT0000435	ugagaugaagcacuguagcuca	tgagatgaagcactgtagctca	0.6830	0.5548
miR-145	MIMAT0000437	guccaguuuucccaggaaucccuu	gtccagttttcccaggaatcccctt	0.8011	0.5664
miR-146a	MIMAT0000449	ugagaacugaauuccauggguu	tgagaactgaattccatgggtt	1.8277	1.8277
miR-149	MIMAT0000450	ucuggcuccgugucuucacucc	tctggctccgtgtcttcactcc	0.9931	0.8645
miR-150	MIMAT0000451	ucucccaacccuuguaccagug	tctcccaacccttgtaccagtg	0.6598	0.7579
miR-151	MIMAT0000757	acuagacugaagcuccuugagg	actagactgaagctccttgagg	1.0210	1.1728
miR-153	MIMAT0000439	uugcauagucacaaaaguga	ttgcatagtcacaaaagtga	0.3536	0.5359
miR-154	MIMAT0000452	uagguuauccguguugccuucg	taggttatccgtgttgccttcg	0.4175	0.4796
miR-155	MIMAT0000646	uuaaugcuaaucgugauagggg	ttaatgctaatcgtgatagggg	1.0210	1.2570
miR-15a	MIMAT0000068	uagcagcacauaaugguuugug	tagcagcacataatggtttgtg	1.0943	1.0210
miR-15b	MIMAT0000417	uagcagcacaucaugguuuaca	tagcagcacatcatggtttaca	1.1019	1.4540
miR-16	MIMAT0000069	uagcagcacguaaauauuggcg	tagcagcacgtaaatattggcg	1.3851	1.4845
miR-17-3p	MIMAT0000071	acugcagugaaggcacuugu	actgcagtgaaggcacttgt	0.8351	0.7270
miR-17-5p	MIMAT0000070	caaagugcuuacagugcagguagu	caaagtgcttacagtgcaggtagt	1.0425	1.1173
miR-181a	MIMAT0000256	aacauucaacgcugucggugagu	aacattcaacgctgtcggtgagt	0.7320	1.3660
miR-181b	MIMAT0000257	aacauucauugcugucgguggg	aacattcattgctgtcggtggg	1.2924	1.4845
miR-181c	MIMAT0000258	aacauucaaccugucggugagu	aacattcaacctgtcggtgagt	0.1672	0.0780
miR-181d	MIMAT0002821	aacauucauuguugucgguggguu	aacattcattgttgtcggtgggtt	1.0425	1.1975
miR-183	MIMAT0000261	uauggcacugguagaauucacug	tatggcactggtagaattcactg	0.2832	0.1743

miR-185	MIMAT0000455	uggagagaaaggcaguuc	tggagagaaaggcagttc	**0.7526**	**0.8066**
miR-186	MIMAT0000456	caaagaauucuccuuuugggcuu	caaagaattctccttttgggctt	**0.6830**	**0.7320**
miR-188	MIMAT0000457	caucccuugcaugguggagggu	catcccttgcatggtggagggt	**0.2755**	**0.1696**
miR-18a	MIMAT0000072	uaaggugcaucuagugcagaua	taaggtgcatctagtgcagata	**1.1647**	**1.3379**
miR-190	MIMAT0000458	ugauauguuugauauauuaggu	tgatatgtttgatatattaggt	**0.2973**	**#VALUE!**
miR-191	MIMAT0000440	caacggaaucccaaaagcagcu	caacggaatcccaaaagcagct	**1.2658**	**0.0300**
miR-192	MIMAT0000222	cugaccuaugaauugacagcc	ctgacctatgaattgacagcc	**0.7684**	**0.8236**
miR-194	MIMAT0000460	uguaacagcaacuccaugugga	tgtaacagcaactccatgtgga	**0.5249**	**0.3978**
miR-195	MIMAT0000461	uagcagcacagaaauauuggc	tagcagcacagaaatattggc	**1.2570**	**1.3472**
miR-196a	MIMAT0000226	uagguaguuucauguuguugg	taggtagtttcatgttgttgg	**0.5864**	**0.5105**
miR-197	MIMAT0000227	uucaccaccuucuccacccagc	ttcaccaccttctccacccagc	**1.0353**	**1.1892**
miR-198	MIMAT0000228	gguccagaggggagauagg	ggtccagaggggagatagg	**0.4175**	**0.2952**
miR-199a+b	MIMAT0000231, MIMAT0000263	cccaguguucagacuaccuguuc, cccaguguuuagacuaucuguuc	cccagtgttcagactacctgttc, cccagtgtttagactatctgttc	**0.8888**	**1.5476**
miR-30b	MIMAT0000420	uguaaacauccuacacucagcu	tgtaaacatcctacactcagct	**0.8351**	**0.6783**
miR-19a+b	MIMAT0000073, MIMAT0000074	ugugcaaaucuaugcaaaacuga, ugugcaaauccaugcaaaacuga	tgtgcaaatctatgcaaaactga, tgtgcaaatccatgcaaaactga	**0.3015**	**0.2449**
miR-95	MIMAT0000094	uucaacggguauuuauugagca	ttcaacgggtatttattgagca	**0.9330**	**0.7579**
miR-20a	MIMAT0000075	uaaagugcuuauagugcagguag	taaagtgcttatagtgcaggtag	**0.9266**	**1.1408**
miR-200a	MIMAT0000682	uaacacugucugguaacgaugu	taacactgtctggtaacgatgt	**0.3686**	**1.5801**
miR-200b	MIMAT0000318	uaauacugccugguaaugaugac	taatactgcctggtaatgatgac	**0.4444**	**0.3143**
miR-200c	MIMAT0000617	uaauacugccggguaaugaugg	taatactgccgggtaatgatgg	**0.3869**	**0.3143**
miR-202	MIMAT0002811	agagguauagggcaugggaaaa	agaggtatagggcatgggaaaa	**1.4044**	**0.3763**
miR-203	MIMAT0000264	gugaaauguuuaggaccacuag	gtgaaatgtttaggaccactag	**0.4931**	**0.4293**
miR-204	MIMAT0000265	uucccuuugucauccuaugccu	ttcccttttgtcatcctatgcct	**1.2746**	**1.4641**
miR-205	MIMAT0000266	uccuucauuccaccggagucug	tccttcattccaccggagtctg	**0.0947**	**0.0136**
miR-206	MIMAT0000462	uggaauguaaggaaguguguggg	tggaatgtaaggaagtgtgtgg	**0.2517**	**0.2192**
miR-21	MIMAT0000076	uagcuuaucagacugauguuga	tagcttatcagactgatgttga	**1.1408**	**1.4044**
miR-210	MIMAT0000267	cugugcgugugacagcggcuga	ctgtgcgtgtgacagcggctga	**0.9526**	**0.6285**
miR-214	MIMAT0000271	acagcaggcacagacaggcag	acagcaggcacagacaggcag	**1.7901**	**1.1810**
miR-215	MIMAT0000272	augaccuaugaauugacagac	atgacctatgaattgacagac	**0.2698**	**0.1550**
miR-372	MIMAT0000724	aaagugcugcgacauuugagcgu	aaagtgctgcgacatttgagcgt	**0.4147**	**0.3143**
miR-373	MIMAT0000726	gaagugcuucgauuuuggggugu	gaagtgcttcgattttggggtgt	**0.4796**	**0.7792**
miR-218	MIMAT0000275	uugugcuugaucuaaccaugu	ttgtgcttgatctaaccatgt	**0.7955**	**1.2058**
miR-219	MIMAT0000276	ugauuguccaaacgcaauucu	tgattgtccaaacgcaattct	**0.1895**	**0.1166**
miR-22	MIMAT0000077	aagcugccaguugaagaacugu	aagctgccagttgaagaactgt	**1.1567**	**1.0792**
miR-488	MIMAT0002804	cccagauaauggcacucucaa	cccagataatggcactctcaa	**0.1638**	**0.1638**
miR-221	MIMAT0000278	agcuacauugucugcuggguuuc	agctacattgtctgctgggtttc	**1.3755**	**1.4743**
miR-222	MIMAT0000279	agcuacaucuggcuacugggucuc	agctacatctggctactgggtctc	**0.9266**	**0.8645**
miR-223	MIMAT0000280	ugucaguuugucaaauacccc	tgtcagtttgtcaaatacccc	**0.4569**	**0.3231**
miR-224	MIMAT0000281	caagucacuagugguuccguuua	caagtcactagtggttccgttta	**0.8645**	**1.1408**
miR-23a	MIMAT0000078	aucacauugccagggauuucc	atcacattgccagggatttcc	**1.3013**	**1.4948**
miR-24	MIMAT0000080	uggcucaguucagcaggaacag	tggctcagttcagcaggaacag	**1.3947**	**1.6021**
miR-25	MIMAT0000081	cauugcacuugucucggucuga	cattgcacttgtctcggtctga	**1.0353**	**1.1892**
miR-26a	MIMAT0000082	uucaaguaauccaggauaggc	ttcaagtaatccaggataggc	**1.0281**	**1.0281**
miR-26b	MIMAT0000083	uucaaguaauucaggauagguu	ttcaagtaattcaggataggtt	**0.6156**	**0.3536**
miR-27a+b	MIMAT0000084, MIMAT0000419	uucacaguggcuaaguuccgc, uucacaguggcuaaguucugc	ttcacagtggctaagttccgc, ttcacagtggctaagttctgc	**1.1892**	**1.1096**
miR-30c	MIMAT0000244	uguaaacauccuacacucucagc	tgtaaacatcctacactctcagc	**0.9330**	**0.9330**
miR-29a+b+c	MIMAT0000086, MIMAT0000100, MIMAT0000681	uagcaccaucugaaaucgguu, uagcaccauuugaaaucaguguu, uagcaccauuugaaaucggu	tagcaccatctgaaatcggtt, tagcaccatttgaaatcagtgtt, tagcaccatttgaaatcggt	**1.5801**	**1.1975**

miR-30a-3p	MIMAT0000088	cuuucagucggauguuugcagc	ctttcagtcggatgtttgcagc	**0.9330**	**1.1487**
miR-30a-5p	MIMAT0000087	uguaaacauccucgacuggaag	tgtaaacatcctcgactggaag	**1.2397**	**1.1567**
miR-296	MIMAT0000690	agggccccccucaauccugu	agggccccccctcaatcctgt	**0.4665**	**0.4665**
U6 snRNA	NCBI: X07425.1	caccacguuuauacgccggug	caccacgtttatacgccggtg		

Yellow highlight indicate miRNAs have potential binding capability to eNOS 3'UTR based on Sanger miRBase-Targets predictive algorithm analysis. Gray highlight indicates different expression of miRNAs between sCD40L- and TNF-α-treated HCAECs.